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Patent Application Papers of: Ari Uistola

- 5 METHOD AND APPARATUS FOR INCREASING A PROBABILITY THAT  
A DUAL-BAND MOBILE STATION WILL ACQUIRE A DESIRED  
AUTONOMOUS SYSTEM

FIELD OF THE INVENTION:

- 10 This invention relates generally to radiotelephones and, in  
particular, to radiotelephones or mobile stations such as  
those capable of operation with a public system and with an  
autonomous system, such as a Private or Residential  
network.

BACKGROUND OF THE INVENTION:

- 15 In modern mobile telecommunications systems a mobile  
station may have a choice as to whether to operate with a  
public cellular system or with an autonomous system, such  
as a Residential system or a Private system. Typically it  
will be desirable to operate with a selected autonomous  
20 system, which may provide a more favorable rate structure  
than the public cellular system(s), or that may provide a  
desired service not offered by the public cellular  
system(s). A particular autonomous system may be a  
Residential system that serves the user's home, or a  
25 Private system that serves the user's workplace.

- One such modern cellular system is referred to as IS-136,  
which is described in IS-136.1, Rev. A, February 1996, and  
subsequent updated releases. This system employs Digital  
Control Channels (DCCHs) that enable a mobile station to  
30 gain access to the system. When a mobile station scans for  
and subsequently monitors a DCCH, it is said to be "camped"  
on that particular DCCH. Page messages and other

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